## AMENDMENTS TO THE SPECIFICATION

Cancel the specification in its entirety and consider the enclosed substitute specification. The substituted specification is identical to the translation of the specification which entered the national phase on February 20, 2001 with the exception that paragraph numbers are included in front of each paragraph, and that the title is shown to match the title of the PCT application. No new matter has been added.

METHOD OF USING WHOLE DIGIT CODE TO ASSIGN ADDRESS FOR COMPUTER
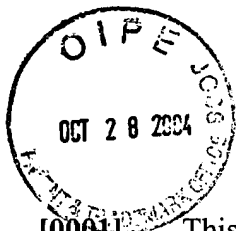
FIELD OF THE INVENTION

[0001] This invention relates to a solution for assigning the addresses to the online computers, especially, it relates to the solution for assigning the addresses to the online computers in full digital code.

BACKGROUND OF THE ART

[0002] With the rapid development of the technology, the world has entered into the information era of the data communication. The Internet, which was established by U.S.A. in 1968 and is considered to be the pioneer of the information highway, is the most famous one among the data networks all over the world. By now, a great number of the countries and areas have joined the Internet family. China already has several international gateways linking with the Internet - the biggest international web in the world, and the user terminals are increasing at a remarkable speed.

[0003] In order to transfer correctly the information to its destination on the Internet, each computer connected onto the Internet must have one unique address. For the time being, there are three kinds of the address coding solutions currently in use internationally and domestically. On is IP address, which is constituted by four fields of the digits separating by the decimal points; the other one is the "domain name" , which is constituted normally by not more than five sets of the character string separating by the decimal points; and the last one is the "Chinese domain name hierarchy system", which is constituted by three levels of the domain name separating by the decimal points and the slash. Although the above address coding solutions can

assign each online computer one unique address, but they all have the shortcomings of the complexity, not unified and hard to remember or input.

SUMMARY OF THE INVENTION

[0004]   The purpose of this invention is to overcome the shortcomings of the current online computer address coding solutions mentioned above. This invention provides a solution of full digital coding, which is simple, easy to use, and easy to remember, which can be input not only by using the keyboard of the computer, but also by accessing an E-mail box using the telephone keyboard input and by browsing the Internet.

[0005]   The technical project to implement this invention utilizes the solution for assigning the addresses to the online computers in full digital code. It has the following characteristics: it is constituted by the full digital code address, which is composed of the online number, the telephone number, and the category number.

[0006]   Here, the said online number refers to the digital number of the established network site, which is specified by the country or area; the said telephone number includes the combination of the IDDD code of the user's country, the area code of the domestic DDD of the user's area, and the telephone number of the user's company or home; and the category number is the digital number specified respectively by the country or area for demarcating uniformly the business category.

[0007]   A method for accessing an E-mail box and browsing the Internet by using the coded addresses of the above solution, wherein: the E-mail box can be accessed or the Internet can be browsed by inputting to the modem of the computer by dialing up a keyboard of a dial-up telephone or the keyboard of the computer; by linking the corresponding digital code; and by converting it with a dedicated software.

[0008]   The full digital code address (FDCA) can be interpreted by the dedicated interpreting software into IP address, or the domain name, or Chinese domain name hierarchy system, and each address corresponds appropriately to only one existing IP address, or the domain name, or Chinese domain name hierarchy system.

[0009]   Since the above mentioned technical project is adopted by this invention, accessing an E-mail box, or browsing the Internet will be simple, and easy to remember and administrate, while each assigned address will never be repeated.

<u>DESCRIPTION OF THE PREFERRED EMBODIMENTS</u>

[0010]   The advantages and the features of this invention win be explained further by the following embodiment.

[0011]   The solution for assigning the addresses to the online computers by using the full digital code: the FDCA (full digital code address) is composed of the online number, the telephone number, and the category number. The said online number refers to the digital number of the established network site specified by the country or area. For example, the online number of "Shanghai hotline" of Shanghai, China is "8888". The said telephone number includes the combination of the IDDD code of the country where the user stays; the area code of the domestic DDD of the user's area; and the telephone number of the user's company or home. For example, in the telephone number "008602162572047" , "0086" is China's IDDD code, "021" is the area code of the domestic DDD code for Shanghai, and "62572047" is the user's telephone number. The combination of these three parts of the numbers make up the "telephone number" part in the FDCA. This is the key point of FDCA, it is simple, and easy to remember, and will never be repeated. The category number is the digital number specified respectively by the country or area for demarcating uniformly the business category. This part of the digital numbers can be set

according to the regulations of the user's country or area, or the network site. It can be specified

as big categories or subcategories, usually, only the big categories are specified. When the big

category is specified by the method of the term selection, the subcategory digital number can be

directed after the category numbers. In practice, if some clients want their addresses to be

encrypted, the encrypted digital number can also be directed after the online number of the

telephone number. And this encrypted number can be proposed by the client himself and, of

course, must be registered first by the address coding organization. The client only has to input

continuously all of the correct numbers either by telephone dial up or computer keyboard input,

which is not only convenient but also quick and efficient to get online after linking.

[0012]   Taking into consideration that a lot of the users getting online for the purpose of

sending or receiving the E-mails, some even only apply for the E-mail operation mode, therefore,

when a user applies for an Internet account number, the Internet service provider always offers

him an E-mail box. The name of this E-mail box is usually composed of three parts, that is, the

user's name, the mail server and the symbol "@". Usually, a character string is used to express

this name. For the purpose of easy to input uniformly, the addresses of the E-mail boxes can also

be coded by the full digital code, which is composed of the user name digital number and the

digital number of the domain name of the mail server where the mail box is located.

[0013]   When the E-mail box is accessed and the Internet is browsed by using the above

coding solution, the E-mail box can be accessed or the Internet can be browsed by inputting to

the modem of the computer by dialing up a keyboard of a dial-up telephone or the keyboard of

the computer; by linking the corresponding digital code; and by converting it with a dedicated

software. In order to be used commonly worldwide, it is necessary to set up a converter which

can enable the digital addresses of this invention corresponding appropriately to the existing

Internet domain names and IP addresses. This converter is composed of interpreting software. Once a FDCA is designated, it can be converted into a respective IP address, or a domain name, or a Chinese domain name hierarchy system, and each FDCA corresponds only to one existing IP address, or a domain name, or a Chinese domain name hierarchy system. Because the computer can only recognize IP address, therefore, in the utilization of this invention, except establishing a converter to convert the FDCA into the worldwide universal domain name and IP address, a server must be designated to interpret the FDCA of this invention into an IP address, so that the computer can recognize and function.

[0014] This invention is suitable for coding the online user address of various networks. The computer from mode 486 and up and its adaptable modem can be used as the user terminal. In the application, not only the software of the operation system is used, but also the support of the appropriate dialing software is needed.

[0015] This invention provides a solution that not only assigning a fixed static address to each online computer, but also assigning a dynamic address to any temporary online computer.

[0016] To make it convenient for the users to use the digital address of the invention, this invention provides an auxiliary information database. The FDCA of this invention and the established online addresses, including the domain names, IP addressees and Chinese domain name hierarchy system, are listed and are respective with each other. These addresses can be up-loaded into the network sites. Once the database is opened by the user, the required online address can be inquired, the users are enabled to choose a more convenient input way when getting online. The information in this database can also be compiled into files and be provided to the users for reading and inquiring.